

1 Attorney Docket No. 80002

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3 METHOD AND SYSTEM FOR PRODUCTION OF FIBROUS COMPOSITE PROTOTYPES
4 USING ACOUSTIC MANIPULATION IN STEREOLITHOGRAPHY

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6 ABSTRACT OF THE DISCLOSURE

7 A method for producing a three-dimensional object by
8 stereolithography. A solid reinforcing material is mixed with
9 the fluid medium so that at least a part of said solid
10 reinforcing medium is located in the layer of the fluid medium
11 between the top surface of the most recently formed lamina and
12 the top surface of the fluid medium. An acoustic field is then
13 established in the fluid medium such that this acoustic field
14 exists in at least part of the layer of the fluid medium between
15 the top surface of the most recently formed lamina and the top
16 surface of the fluid medium. The solid reinforcing material is
17 thereby moved with said acoustic force field. A three-
18 dimensional reinforced object is thereby produced.